

### Abstract

The invention relates to processes for preparing 3-aminomethyl-3,5,5-trimethylcyclo-  
5 hexylamine (isophoronediamine, IPDA) having a high cis/trans isomer ratio. IPDA having  
a cis/trans isomer ratio in the range from 63/37 to 66/34 can be obtained in any desired  
cis/trans isomer ratio, irrespective of temperature, by reacting IPDA with H<sub>2</sub> and NH<sub>3</sub> in  
the presence of a hydrogenation catalyst. IPDA having a cis/trans isomer ratio of at least  
73/27 which is an important starting material for the synthesis of polyurethanes and  
10 polyamides can be obtained by combining this isomerization process with distillative  
processes.